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1 Remotely-sensed geophysical databases: experience and implications 82%



for generalized DBMS

Guy M. Lohman , Joseph C. Stoltzfus , Anita N. Benson , Michael D. Martin , Alfonso F. Cardenas

ACM SIGMOD Record , Proceedings of the 1983 ACM SIGMOD international conference on Management of data May 1983

Volume 13 Issue 4

This paper presents the characteristics of scientific remotely-sensed databases that are relevant to --- and pose unique challenges for --- general-purpose database management systems (DBMSs). We describe a prototype system that integrates geophysical data and its metadata from both satellite and *in situ* sources, using a relational general-purpose DBMS to manage the catalog and observational data, and a video optical disk to archive images. Based upon our experience with this application,

...

2 Fast detection of communication patterns in distributed executions 80%



Thomas Kunz , Michiel F. H. Seuren

Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research November 1997

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 The design of a relational database system with abstract data types for 80%

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**domains**

Sylvia L. Osborn , T. E. Heaven

ACM Transactions on Database Systems (TODS) August 1986

Volume 11 Issue 3

An extension to the relational model is described in which domains can be arbitrarily defined as abstract data types. Operations on these data types include primitive operations, aggregates, and transformations. It is shown that these operations make the query language complete in the sense of Chandra and Harel. The system has been designed in such a way that new data types and their operations can be defined with a minimal amount of interaction with the database management system.

4 The IBM data warehouse architecture

80%



Charles Bontempo , George Zagelow

Communications of the ACM September 1998

Volume 41 Issue 9

5 Session IV - hypertext systems: Intermedia: issues, strategies, and

80%

**tactics in the design of a hypermedia document system**

L. Nancy Garrett , Karen E. Smith , Norman Meyrowitz

Proceedings of the 1986 ACM conference on Computer-supported cooperative work December 1986

A hypermedia system provides a tool for cooperative work by allowing writers and designers to share a network of linked documents where they can create documents, link their own and others' documents together, and leave notes for one another. This paper discusses issues that designers need to address in the development of hypermedia systems. Major issues involve what kind of linking, contexts, and visual modeling the system provides. The composite of the answers to these issues determines the na ...

6 IS '97: model curriculum and guidelines for undergraduate degree

77%

**programs in information systems**

Gordon B. Davis , John T. Gorgone , J. Daniel Cougar , David L. Feinstein , Herbert E. Longenecker

ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems December 1997

Volume 28 Issue 1

7 The FINITE STRING Newsletter: Abstracts of current literature

77%



Computational Linguistics Staff

Computational Linguistics January 1987

Volume 13 Issue 1-2

8 A data model and query language for EXODUS

77%



Michael J. Carey , David J. DeWitt

ACM SIGMOD Record , Proceedings of the 1988 ACM SIGMOD international conference on Management of data June 1988

Volume 17 Issue 3

In this paper, we present the design of the EXTRA data model and the EXCESS query language for the EXODUS extensible database system. The EXTRA data model includes support for complex objects with shared subobjects, a novel mix of object- and value-oriented semantics for data, support for persistent objects of any type in the EXTRA

type lattice, and user-defined abstract data types (ADTs). The EXCESS query language provides facilities for querying and updating complex object structu ...

9 Integrated network computing models, programming modes and software tools 77%



V. K. Murthy , E. V. Krishnamurthy/

Proceedings of the 1998 ACM symposium on Applied Computing February 1998

10 Placing search in context: the concept revisited 77%



Lev Finkelstein , Evgeniy Gabrilovich , Yossi Matias , Ehud Rivlin , Zach Solan , Gadi

Wolfman , Eytan Ruppin

Proceedings of the tenth international conference on World Wide Web April 2001

11 Multimedia document presentation, information extraction, and 77%



document formation in MINOS: a model and a system

S. Christodoulakis , M. Theodoridou , F. Ho , M. Papa , A. Pathria

ACM Transactions on Information Systems (TOIS) December 1986

Volume 4 Issue 4

MINOS is an object-oriented multimedia information system that provides integrated facilities for creating and managing complex multimedia objects. In this paper the model for multimedia documents supported by MINOS and its implementation is described. Described in particular are functions provided in MINOS that exploit the capabilities of a modern workstation equipped with image and voice input-output devices to accomplish an active multimedia document presentation and browsing within docu ...

12 Interoperability of multiple autonomous databases 77%



Witold Litwin , Leo Mark , Nick Roussopoulos

ACM Computing Surveys (CSUR) September 1990

Volume 22 Issue 3

Database systems were a solution to the problem of shared access to heterogeneous files created by multiple autonomous applications in a centralized environment. To make data usage easier, the files were replaced by a globally integrated database. To a large extent, the idea was successful, and many databases are now accessible through local and long-haul networks. Unavoidably, users now need shared access to multiple autonomous databases. The question is what the corresponding methodology ...

13 Design of the Mneme persistent object store 77%



J. Eliot B. Moss

ACM Transactions on Information Systems (TOIS) April 1990

Volume 8 Issue 2

The Mneme project is an investigation of techniques for integrating programming language and database features to provide better support for cooperative, information-intensive tasks such as computer-aided software engineering. The project strategy is to implement efficient, distributed, persistent programming languages. We report here on the Mneme persistent object store, a fundamental component of the project, discussing its design and initial prototype. Mneme stores objects

14 The Mesa programming environment 77%




Richard E. Sweet

Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments June 1983

Volume 18 , 20 Issue 6 , 7

People everywhere are developing multi-window, integrated programming environments for their favorite computers and languages. This paper describes the Mesa programming facilities of the Xerox Development Environment (XDE). It is interesting for several reasons. It has existed in something similar to its current form for about 5 years. It has more than 500 users, many interacting with it 8 or more hours a day. Several million lines of code have been written by these users, including large, ...

15 Implementing SMART for minicomputers via relational processing With 77%


 abstract data types

Edward A. Fox

Proceedings of the 1981 ACM SIGSMALL symposium on Small systems and SIGMOD workshop on Small database systems October 1981

Designed during the 1960's as a research tool for the field of information retrieval, the SMART system has been operating on an IBM 370 since 1974. SMART is now being enhanced, redesigned, and programmed under the UNIX operating system [28] on a DEC VAX 11/780. The techniques used should allow real-time operation on smaller minicomputers in the PDP 11 family. The implementation provides for a combination of database and information retrieval operations which make it applicable to office aut ...


16 WCRC: An ANSI SPARC machine architecture for data base management 77%

 Sudhir K. Arora , S. R. Dumpala , K. C. Smith

Proceedings of the 8th annual symposium on Computer Architecture May 1981

Several data base machine architectures have been proposed in the past few years. The next generation of these machines must simultaneously support different data models on the same physical data. One approach to this problem, GDBMS, has recently been described in the literature. This paper presents the architecture of another approach: the well-connected relation computer (WCRC). The architectures of these two computers are compared, and a preliminary performance evaluation showing that WC ...

17 An asymptotically optimal multiversion B-tree 77%

 Bruno Becker , Stephan Gschwind , Thomas Ohler , Bernhard Seeger , Peter Widmayer


The VLDB Journal — The International Journal on Very Large Data Bases

December 1996

Volume 5 Issue 4

In a variety of applications, we need to keep track of the development of a data set over time. For maintaining and querying these multiversion data efficiently, external storage structures are an absolute necessity. We propose a multiversion B-tree that supports insertions and deletions of data items at the current version and range queries and exact match queries for any version, current or past. Our multiversion B-tree is asymptotically optimal in the sense that the time and space bounds are ...

18 Query processing and optimization in Oracle Rdb 77%

 Gennady Antoshenkov , Mohamed Ziauddin

The VLDB Journal — The International Journal on Very Large Data Bases

December 1996

Volume 5 Issue 4

This paper contains an overview of the technology used in the query processing and optimization component of Oracle Rdb, a relational database management system

originally developed by Digital Equipment Corporation and now under development by Oracle Corporation. Oracle Rdb is a production system that supports the most demanding database applications, runs on multiple platforms and in a variety of environments.

19 A generalized model management system for mathematical programming

77%

Daniel R. Dolk

ACM Transactions on Mathematical Software (TOMS) September 1986

Volume 12 Issue 2

This paper examines mathematical programming software in the context of model management and decision support. The concept of a model management system (MMS) is introduced and compared to traditional modeling systems. An MMS is seen as a much more generalized software system that requires the confluence of existing operations research, database management, and artificial intelligence techniques. By incorporating powerful, abstraction-based representation structures, an MMS can support multi ...

20 An associative file store using fragments for run-time indexing and compression

77%

R. M. Lea , E. J. Schuegraf

Proceedings of the 3rd annual ACM conference on Research and development in information retrieval June 1980

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